CHROMOSOME NUMBERS IN SOME NIGERIAN COMPOSITAE

L.S. Gill and D.I. Omoigui Department of Botany University of Benin, P.M.B. 1154, Benin City Nigeria

Abstract

Chromosome numbers of 49 species distributed in 28 genera of Compositae from Nigeria are reported.

Introduction

The Compositae family is represented in the flora of Nigeria by 288 species distributed in 84 genera (Gill, 1988). The family is somewhat neglected by cytotaxonomists and many species have not been examined cytologically. With this in mind a project "Cytological survey of the Nigerian Compositae" was undertaken by the senior author and earlier contributions in this series are Gill and Omoigui (1987, 1988). The present paper lists the chromosome numbers of 49 species distributed in 28 genera.

Material and Methods

Young flower buds were collected in the field and fixed in 1:3 acetic-alcohol solution for 24 hrs, then transferred into 70 % ethyl alcohol and stored under refrigeration until they could be examined. The anthers were squashed and stained in 2 % acetocarmine solution. The haploid chromosome numbers were determined from temporary slides. At least 15-20 well spread metaphase 1 and anaphase 1 plates were examined to confirm the chromosome number of each taxon. Voucher specimens of all the collections examined are kept at the University of Benin, Department of Botany Herbarium, Benin City, Nigeria. A duplicate set of

the voucher specimens has been deposited at FHI. The results obtained during the present study are summarized in Table 1 and the arrangement of taxa in Table 1 is alphabetical.

Results

Table 1. Chromosome Numbers in some Nigerian Compositae

	Taxon	Haploid Chromo- some Number	Source and Voucher
1.	Anisopappus africanus (Hook.f.) Oliv.	14	Bauchi Rd., Jos, Omoigui 097
2.	A. dalzielii Hutch.	14	Obudu Ranch, Omoigui 098
3.	Aspelia helianthoides (Schum. & Thonn.) Oliv. & Hiern	14	Igbetti, Omoigui 111
4.	Blumea aurita var. foliolosa (DC.) Adams	11	Kano, Omoigui 123
5.	Centaurea nigerica Hutch.	10	Oyo-Ugbetti, Omoigui 133
6.	C. perrottetii DC.	10	Kano, Omoigui 170
7.	Ceruana pratenis Forssk.	16	Kaduna, Omoigui 168
8.	Chromolaena odorata (L.) King & Robinson	30	Jos, Omoigui 136
9.	Coreopsis asperata. Hutch. & Dalz.	14	Jos, Omoigui 128
10.	C. barteri Oliv. & Hiern	14	Vom; near Jos, Omoigui 093
11.	C. camporum Hutch.	14	Jos, Omoigui 119
12.	Crassocephalum mannii (Hook.f.) Milne-Redhea	10 ad	Obudu Ranch, Omoigui 151
13.	Eupatorium africanum Oliv. & Hiern	15	Obudu Ranch, Omoigui 023
14.	Felicia homochroma S. Moore	9	Jos, Omoigui 166

15.	Guizotia scabra (Vis.) Chiov.	15	Jos. Omoigui 122
16.	G. abyssinica (L.f.) Cass.	15	Jos, Omoigui 169
17.	Gutenbergia nigritana (Bth.) Oliv. & Hiern	10	Jos, Omoigui 074
18.	Helichrysum albiflorum Moeser	7	Obudu Ranch, Omoigui 175
19.	H. antunesii var. latifolium C.D. Adams	7	Gembu, Omoigui 167
20.	H. mechowianum Klatt	7	Obudu Ranch, Omoigui 177
21.	Inula klingii O. Hoffm.	10	Jos, Omoigui 096
22.	I. subscaposa S. Moore	10	Gembu, Omoigui 172
23.	Lactuca capensis Thunb.	8	Jos, Omoigui 024
24.	Laggera alata (D.Don) Sch. Bip.	10	Obudu Ranch, Omoigui 067
25.	Launaea nudicaulis (L.) Hook. f.	9	Obudu Ranch, Omoigui 115
26.	Melanthera elliptica O. Hoffm.	16	Jos, Omoigui 116
27.	Mollera angolensis O. Hoffm.	9	Jos, Omoigui 124
28.	Picris humilis DC.	5	Vom; near Jos, Omoigui 85
29.	Porphyrostemma chevalieri (O. Hoffm.) Hutch. & Dalz.	11	Bauchi, Omoigui 088
30.	Pulicaria crispa (Forssk.) Oliv.	10	Bauchi, Omoigui 141
31.	Senecio abyssinicus Sch. Bip. ex A.Rich.	5	Kaura Falls, Omoigui 120
32.	S. baberka Hutch.	5	Jos, Omoigui 138
33.	S. hochstetteri Sch. Bip. ex A. Rich.	5	Jos, Omoigui 152
34.	S. lelyi Hutch.	5	Jos, Omoigui 117
35.	Sonchus elliotianus Hiern	9	Obudu Ranch, Omoigui 164
36.	S. oleraceus L.	16	Jos, Omoigui 112

37.	S. schweinfurthii Oliv. & Hiern	9	Gembu, Omoigui 190
38.	Sphaeranthus flexuosus O. Hoffm.	10	Bauchi, Omoigui 081
39.	S. senegalensis DC.	10	Zaria, Omoigui 171
40.	Synedrella nodiflora Gaertn.	19	Benin City, Omoigui 103
41.	Vernonia ambigua Kotschy & Peyr.	11	Jos, Omoigui 129
42.	V. biafrae Oliv. & Hiern	9	Obudu Ranch, Omoigui 102
43.	V. guineensis var. cameroonica (O.Hoffm.) C.D. Adams	9	Obudu Ranch, Omoigui 108
44.	V. macrocyanus O. Hoffm.	11	Zaria, Omoigui 116
45.	V. nestor S. Moore	9	Obudi, Omoigui 131
46.	V. saussureoides Hutch.	9	Kaura Falls, Omoigui 092
47.	V. stenostegia (Stapf) Hutch.	9, 11	Jos, Omoigui 087
48.	V. smithiana Less.	10	Obudu Ranch, Omoigui 146
49.	Vicoa leptoclada (Webb) Dandy	10	Bauchi, Omoigui 086